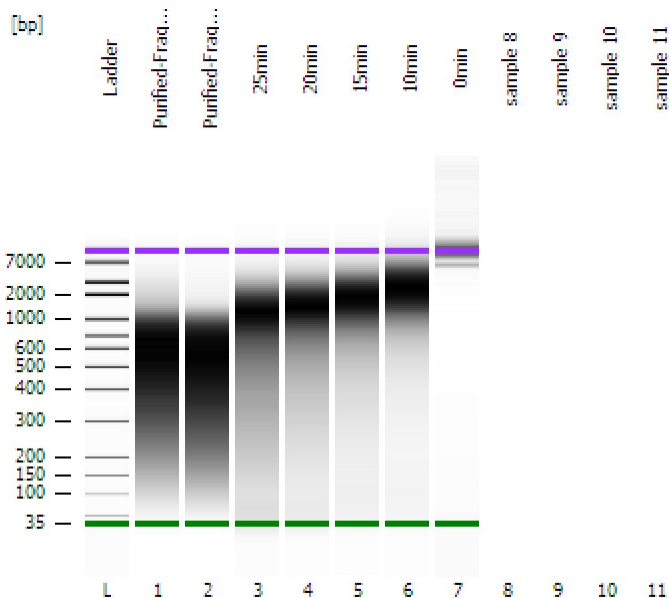


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

### Electrophoresis File Run Summary



#### Instrument Information:

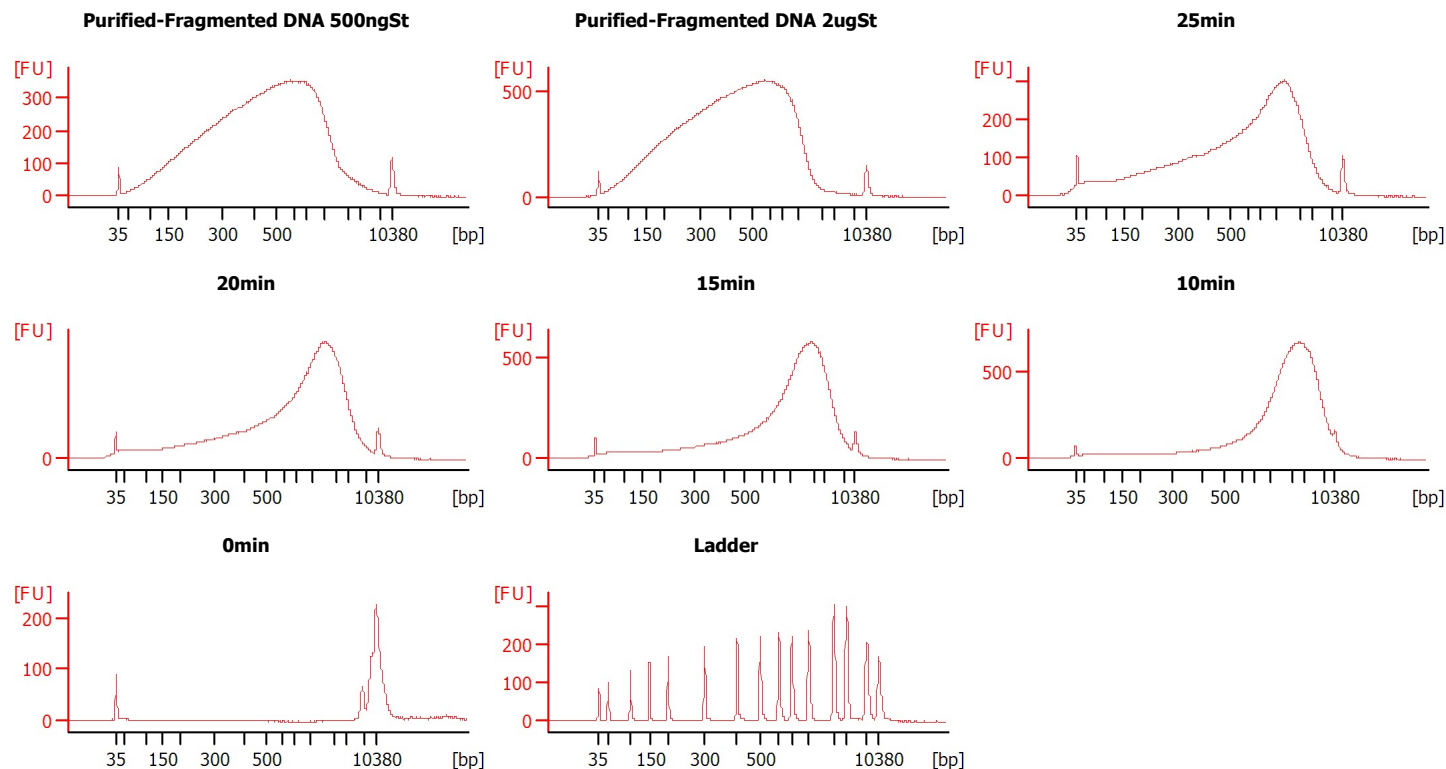
Instrument Name: DE72901887 Firmware: C.01.069  
Serial#: DE72901887 Type: G2939A

#### Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.0  
Assay Comments: Copyright © 2003-2009 Agilent Technologies

#### Chip Information:

Chip Lot #:  
Reagent Kit Lot #:  
Chip Comments:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Sta tus	Observation	Result Label	Result Color
Purified-Fragmen ted DNA 500ngSt		<input type="checkbox"/>	✓			
Purified-Fragmen ted DNA 2ugSt		<input type="checkbox"/>	✓			
25min		<input type="checkbox"/>	✓			
20min		<input type="checkbox"/>	✓			
15min		<input type="checkbox"/>	✓			
10min		<input type="checkbox"/>	✓			
0min		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				

**Chip Lot #****Reagent Kit Lot #****Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

### Integrator Settings

Integration Start Time [s] : 33.05  
Integration End Time [s] : 137  
Slope Threshold : 0.8  
Height Threshold [FU] : 5  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

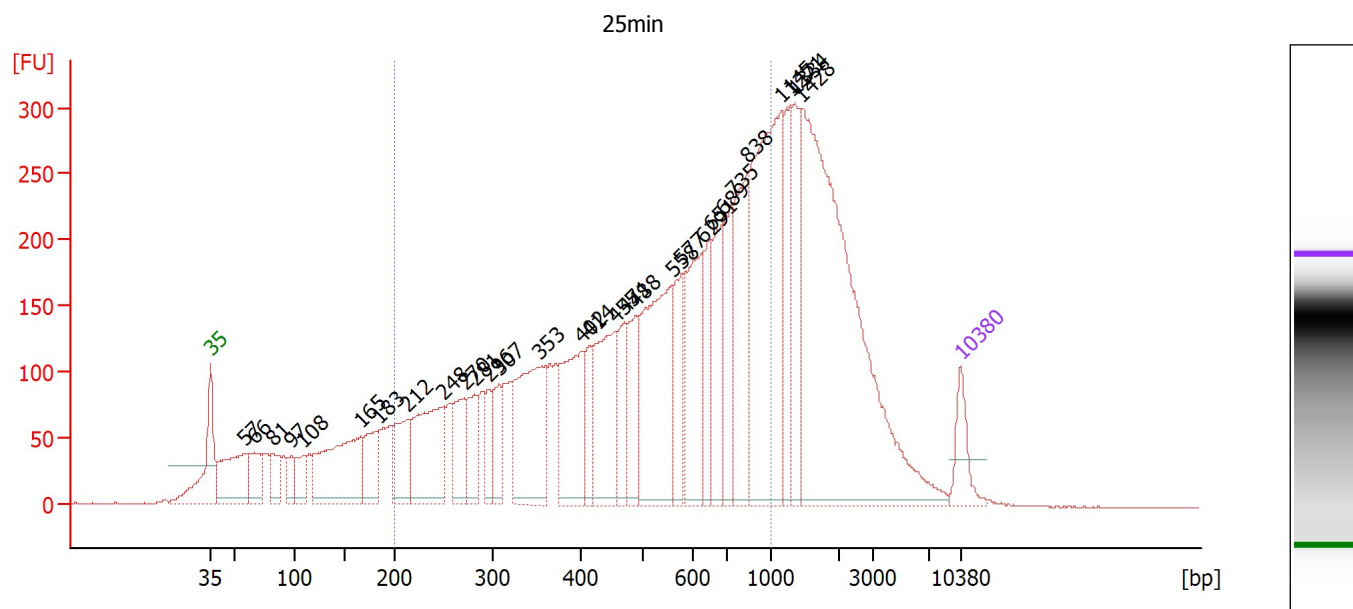
### Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
 Modified: 4/28/2010 5:43:28 PM

### Electropherogram Summary Continued ...



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

**Electropherogram Summary Continued ...****... Peak table for sample 3 : 25min**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	838	321.92	582.2	
28	1,145	681.92	902.5	
29	1,271	156.61	186.7	
30	1,334	189.12	214.8	
31	1,428	1,253.62	1,329.7	
32	10,380	75.00	10.9	Upper Marker

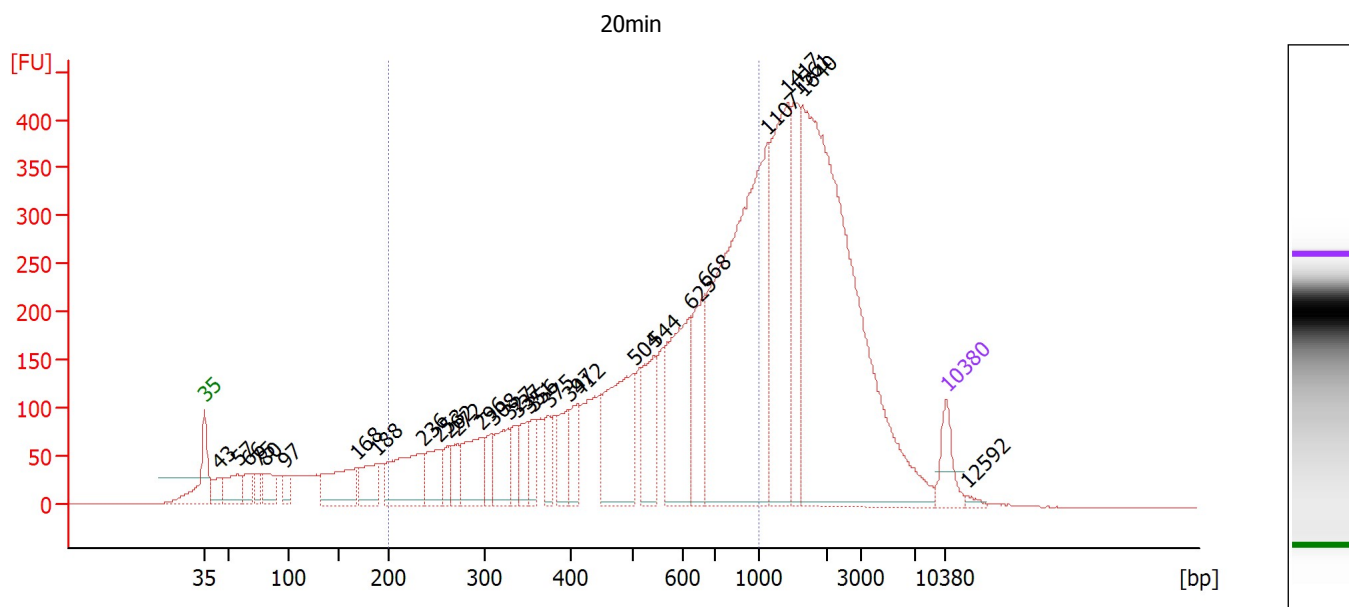
**Region table for sample 3 : 25min**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,743.5	60	539	39.7	5,301.65	19,240.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
 Modified: 4/28/2010 5:43:28 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 4 : 20min

Number of peaks found: 30      Corr. Area 1: 5,378.9  
 Noise: 0.3

### Peak table for sample 4 : 20min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	71.49	2,490.1	
3	57	127.61	3,375.3	
4	66	72.82	1,663.3	
5	75	49.89	1,008.8	
6	80	100.76	1,899.8	
7	97	52.55	820.0	
8	168	223.09	2,008.6	
9	188	136.71	1,100.4	
10	236	275.82	1,767.6	
11	253	131.83	788.0	
12	262	59.71	344.9	
13	272	74.00	411.9	
14	296	194.06	993.8	
15	308	74.32	365.2	
16	327	145.41	673.8	
17	337	78.46	352.9	
18	351	89.09	385.0	
19	356	76.00	323.3	
20	375	75.68	306.0	
21	397	110.72	422.4	
22	412	100.64	369.7	
23	504	384.18	1,153.9	
24	544	188.98	526.4	
25	625	384.93	933.6	
26	668	226.31	513.5	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

**Electropherogram Summary Continued ...****... Peak table for sample 4 : 20min**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,107	1,226.29	1,679.1	
28	1,417	537.24	574.3	
29	1,561	225.53	218.9	
30	1,640	1,542.78	1,425.0	
31	10,380	75.00	10.9	Upper Marker
32	12,592	0.00	0.0	

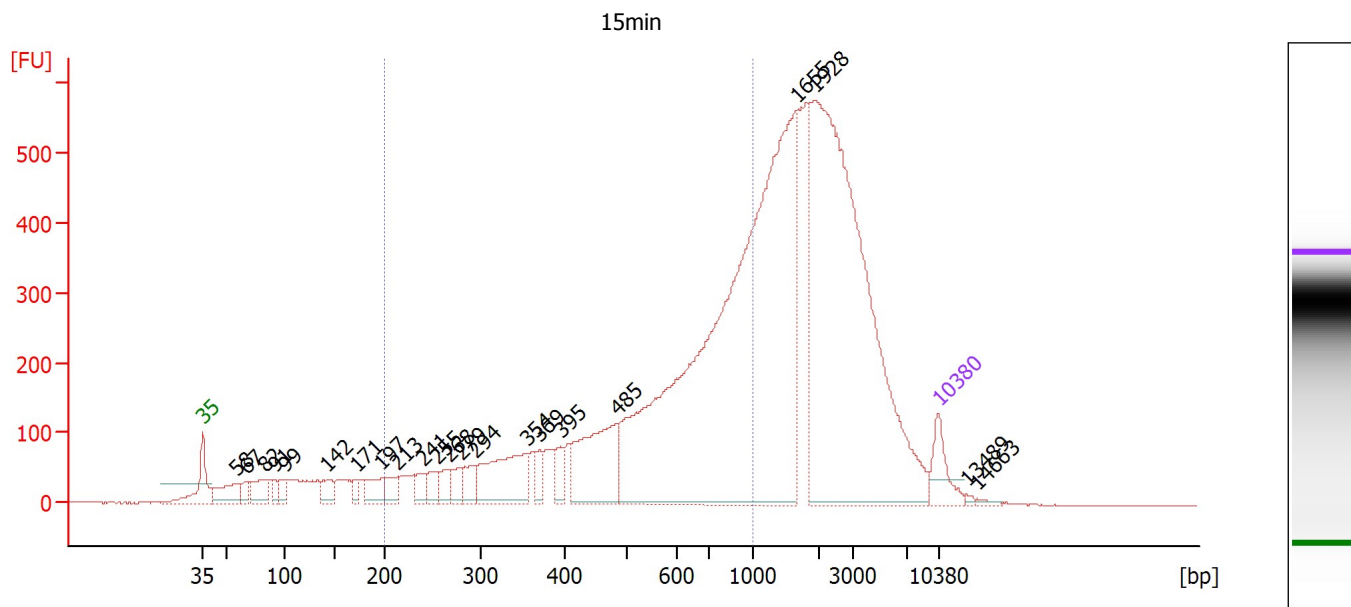
**Region table for sample 4 : 20min**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,378.9	52	569	38.2	4,369.05	14,964.2	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
 Modified: 4/28/2010 5:43:28 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 5 : 15min

Number of peaks found: 22      Corr. Area 1: 4,907.2  
 Noise: 0.4

### Peak table for sample 5 : 15min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	58	114.02	3,003.9	
3	67	45.27	1,022.4	
4	82	96.19	1,784.4	
5	91	36.73	612.9	
6	99	36.35	558.9	
7	142	58.50	622.4	
8	171	29.95	265.1	
9	197	83.07	638.2	
10	213	56.04	398.2	
11	241	45.34	285.1	
12	255	56.23	334.3	
13	268	57.91	327.8	
14	279	51.32	278.4	
15	294	68.74	354.0	
16	354	271.60	1,161.8	
17	369	44.00	180.6	
18	395	53.94	207.0	
19	485	337.32	1,054.5	
20	1,655	2,219.66	2,031.6	
21	1,928	1,565.82	1,230.2	
22	10,380	75.00	10.9	Upper Marker
23	13,489	0.00	0.0	
24	14,663	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

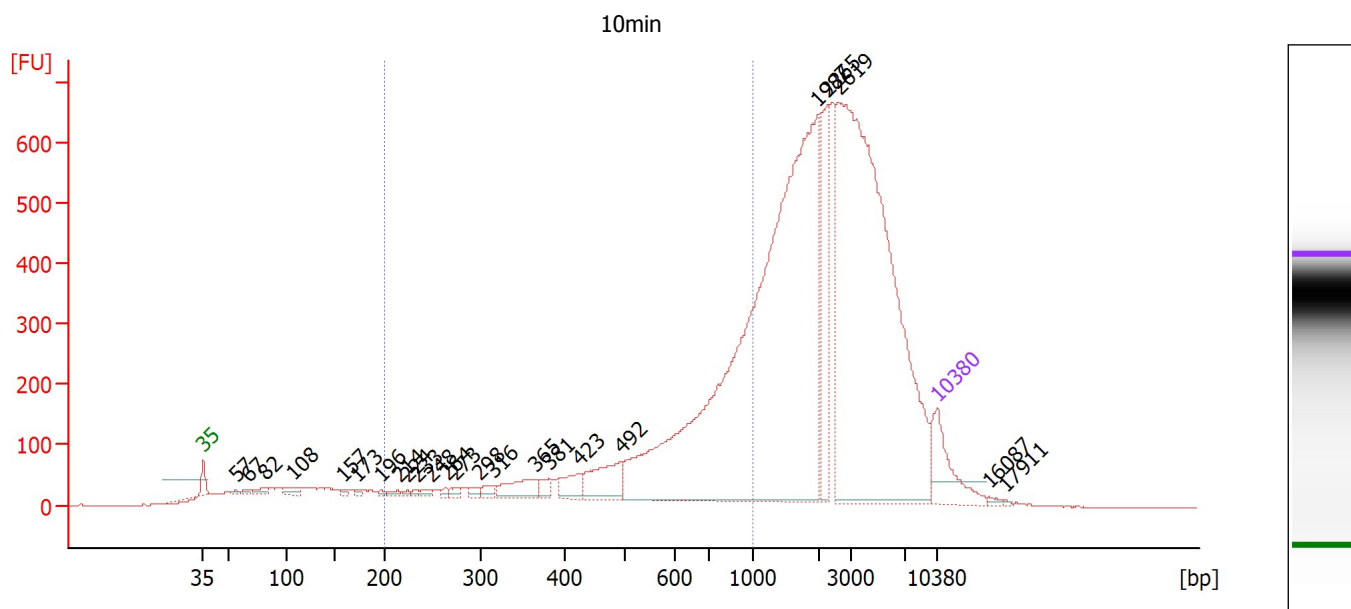
**Electropherogram Summary Continued ...****... Region table for sample 5 :****15min**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	4,907.2	41	592	36.9	2,942.36	9,653.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
 Modified: 4/28/2010 5:43:28 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 6 : 10min

Number of peaks found: 24      Corr. Area 1: 3,244.2  
 Noise: 0.3

### Peak table for sample 6 : 10min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	57	4.19	111.2	
3	67	6.81	153.6	
4	82	14.36	265.9	
5	108	19.70	277.2	
6	157	5.94	57.2	
7	173	4.82	42.3	
8	196	4.74	36.7	
9	214	8.66	61.2	
10	224	5.02	33.9	
11	233	4.53	29.4	
12	248	8.77	53.6	
13	264	6.67	38.2	
14	273	9.56	53.1	
15	298	9.94	50.5	
16	316	14.29	68.6	
17	365	53.19	220.6	
18	381	17.46	69.4	
19	423	37.96	136.1	
20	492	81.96	252.4	
21	1,987	1,280.20	976.0	Upper Marker
22	2,265	150.97	101.0	
23	2,619	1,008.52	583.4	
24	10,380	75.00	10.9	
25	16,087	0.00	0.0	
26	17,911	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

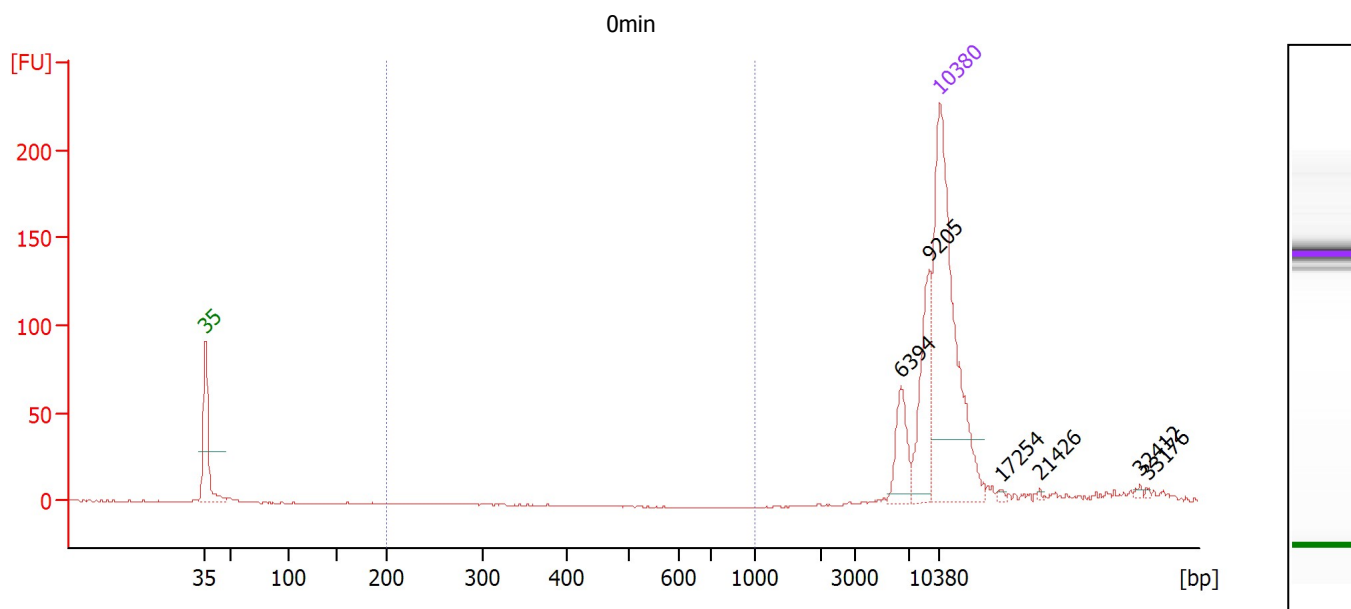
**Electropherogram Summary Continued ...****... Region table for sample 6 :****10min**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	3,244.2	27	616	35.8	1,130.80	3,570.1	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
 Modified: 4/28/2010 5:43:28 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : 0min

Number of peaks found: 6      Corr. Area 1: 0.0  
 Noise: 0.3

### Peak table for sample 7 : 0min

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	6,394	13.74	3.3	
3	9,205	23.36	3.8	Upper Marker
4	10,380	75.00	10.9	
5	17,254	0.00	0.0	
6	21,426	0.00	0.0	
7	32,412	0.00	0.0	
8	33,176	0.00	0.0	

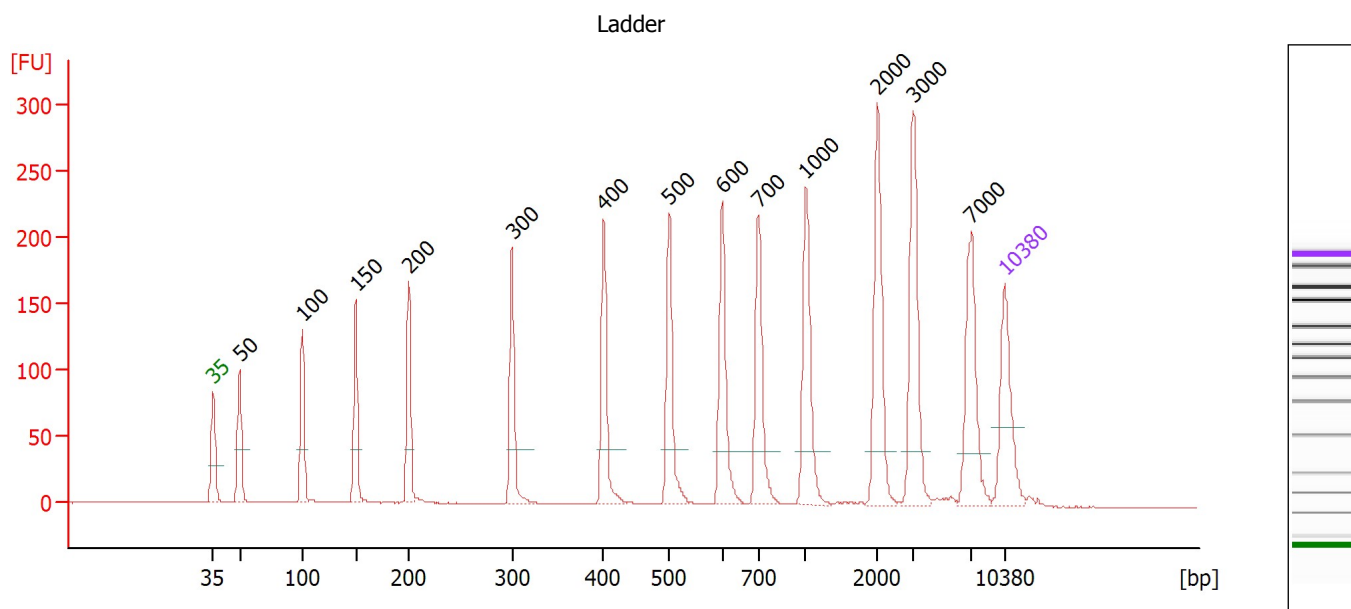
### Region table for sample 7 : 0min

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	0.0	0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
 Modified: 4/28/2010 5:43:28 PM

### Electropherogram Summary Continued ...



### Setpoint Deviations for sample 12 : Ladder

Height Threshold [FU] : 20      Baseline Plateau [s] : 0.3  
 Area Threshold : 0

### Overall Results for Ladder

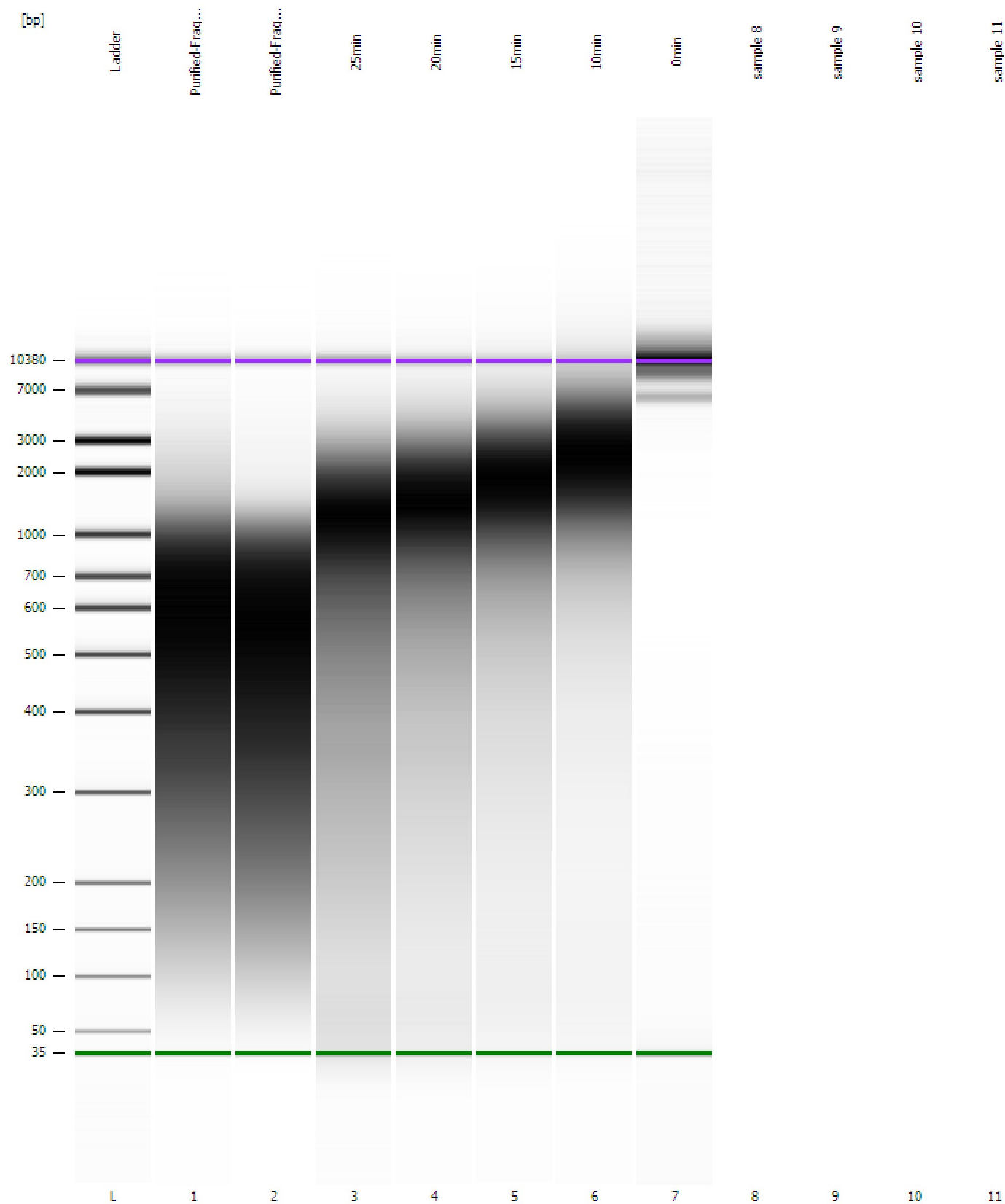
Noise: 0.3

### Peak table for Ladder

Peak		Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	└	50	150.00	4,545.5	Ladder Peak
3	└	100	150.00	2,272.7	Ladder Peak
4	└	150	150.00	1,515.2	Ladder Peak
5	└	200	150.00	1,136.4	Ladder Peak
6	└	300	150.00	757.6	Ladder Peak
7	└	400	150.00	568.2	Ladder Peak
8	└	500	150.00	454.5	Ladder Peak
9	└	600	150.00	378.8	Ladder Peak
10	└	700	150.00	324.7	Ladder Peak
11	└	1,000	150.00	227.3	Ladder Peak
12	└	2,000	150.00	113.6	Ladder Peak
13	└	3,000	150.00	75.8	Ladder Peak
14	└	7,000	150.00	32.5	Ladder Peak
15	▶	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

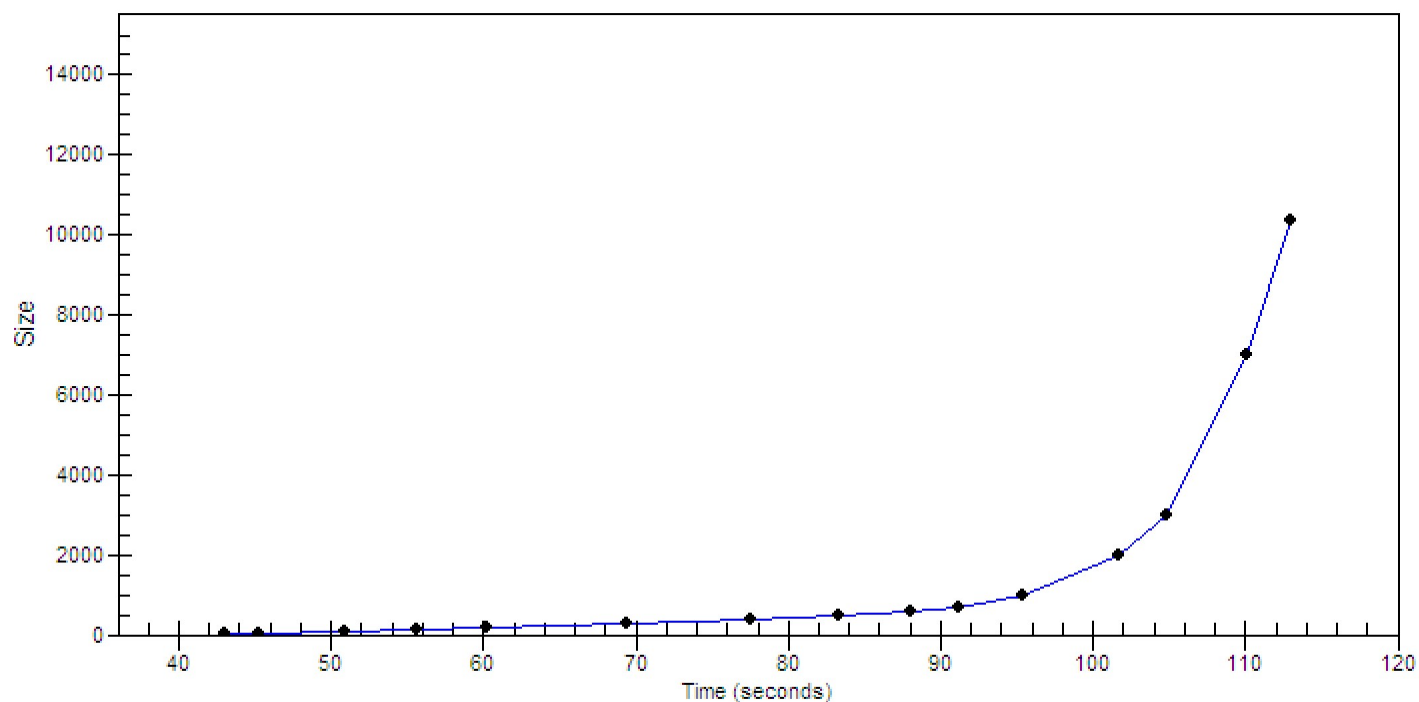
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
Modified: 4/28/2010 5:43:28 PM

## Curves

### Standard Curve



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72901887\_2010-04-28\_17-13-27.xad

Created: 4/28/2010 5:13:27 PM  
 Modified: 4/28/2010 5:43:28 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time Stamp	Time Zone	User	Host
Run ended on port 5 (Number of wells acquired: 8)		Instrument	Run		4/28/2010 5:43:21 PM	(GMT +09:00) Tokyo Standard Time	Administrator	BIOANALYZER
Run started on port 5 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2010-04-28\2100 expert_High Sensitivity DNA Assay_DE72901887_2010-04-28_17-13-27.xad)		Instrument	Run		4/28/2010 5:13:33 PM	(GMT +09:00) Tokyo Standard Time	Administrator	BIOANALYZER
Product Number : G2939A		Instrument	Run		4/28/2010 5:13:33 PM	(GMT +09:00) Tokyo Standard Time	Administrator	BIOANALYZER
Name :		Instrument	Run		4/28/2010 5:13:33 PM	(GMT +09:00) Tokyo Standard Time	Administrator	BIOANALYZER
Vendor : Agilent Technologies		Instrument	Run		4/28/2010 5:13:33 PM	(GMT +09:00) Tokyo Standard Time	Administrator	BIOANALYZER
Serial# : DE72901887		Instrument	Run		4/28/2010 5:13:33 PM	(GMT +09:00) Tokyo Standard Time	Administrator	BIOANALYZER
Firmware : C.01.069		Instrument	Run		4/28/2010 5:13:33 PM	(GMT +09:00) Tokyo Standard Time	Administrator	BIOANALYZER
Cartridge : Electrode		Instrument	Run		4/28/2010 5:13:33 PM	(GMT +09:00) Tokyo Standard Time	Administrator	BIOANALYZER